

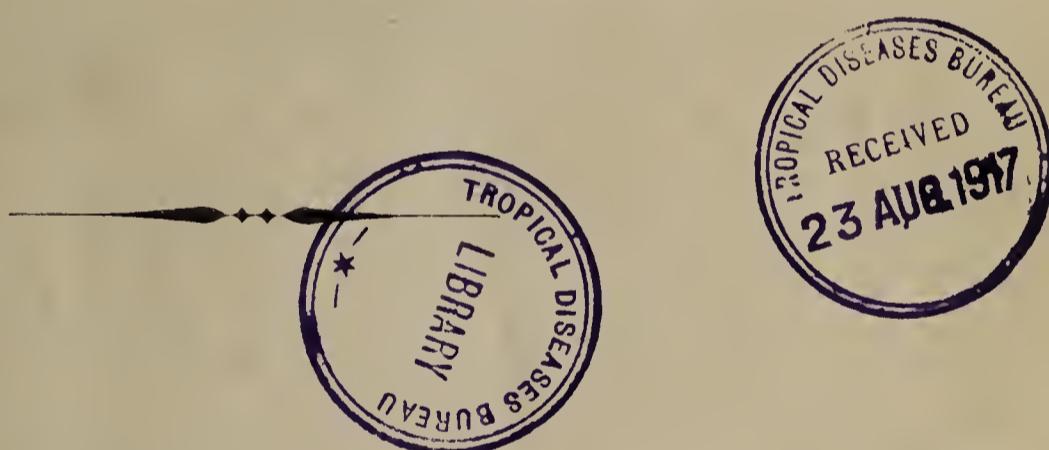
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COLOMBO MUNICIPALITY.

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Administration Report

1916

Public Health Department.



REPORT BY WM. MARSHALL PHILIP, M.B., D.P.H.,
Medical Officer of Health.



Colombo :

S. M. JOHAR, MUNICIPAL PRINTER, CEYLON.

From the MEDICAL OFFICER OF HEALTH, COLOMBO to the CHAIRMAN, MUNICIPAL COUNCIL, COLOMBO.

No. 137.

Colombo, 26th March, 1917.

ADMINISTRATION REPORT FOR 1916.

SIR,

I HAVE the honour to forward the report of the Public Health Department for the year 1916.

I. VITAL STATISTICS.

General.—The year 1916 was marked by an unusual prevalence of infectious diseases, the total number of cases of all kinds recorded being 6,179, as compared with the average of 2,355 during the previous 10 years, and the highest previous record of 3,371 in 1908. This increase was, however, chiefly due to chicken-pox, with 3,204 cases, and measles, with 1,353 cases. Of the more dangerous infectious diseases, there was only one case of small-pox and two of cholera, but plague showed some signs of increased activity, with 291 cases, compared with 138 during the preceding year. It was, however, still not so prevalent as during 1914, when 413 cases were recorded. Enteric fever, with 440 town cases, showed a tendency to increase, compared with the previous 3 years, during which the corresponding totals were 393, 229, and 415, respectively. The incidence of phthisis was much the same with 806 cases, as against 892 in 1915 and 771 in 1914.

Turning to the general death-rates, the crude death-rate from all causes was 27.7 per 1,000 which is slightly higher than in the preceding 2 years, when the corresponding rates were 26.3 and 26.9 respectively. The infant mortality, on the other hand, was only 234 per 1,000 births, which is the lowest rate recorded. The infant death-rate is undoubtedly one of the most satisfactory features of the Colombo statistics, for it has, with only one rather serious set back in 1908, been rapidly falling during the last 13 years, *i.e.*, since 1903, when the rate was 410 per 1,000 births (*vide* diagram annexed.)

The comparative absence of small-pox and cholera, and the reduction in the infant mortality is very satisfactory, but the tendency towards increased prevalence of plague and enteric fever is a rather disquieting feature in the vital statistics, more especially when it is considered how handicapped we are in dealing effectively with plague so long as the City contains such a large proportion of buildings which are so constructed that they form ideal conditions for rat infestation. As regards enteric fever, the prevalence of this disease is without doubt to a large extent the result of carelessness on the part of householders in the matter of maintaining their so called dry-earth latrines in a sanitary state and the sooner these abominations disappear from Colombo the better it will be for the health of the town.

DETAILS OF DANGEROUS INFECTIOUS DISEASES.

Small-pox.—Only one case of this disease was recorded during the year, on 17th April, at 305 East and West Baseline road. With the exception of cases under treatment at the Infectious Diseases Hospital and which were derived from the Port, there had been no cases of small-pox in Colombo since the 4th November, 1915, nor did any further case occur subsequently.

Vaccination.—10,030 vaccinations were performed by the Government vaccinators, and 472 by the Municipal vaccinators representing a total of 10,502 of which 7,018 were primary and 3,484 were re-vaccinations.

Cholera.—Two brothers, Tamils, both employed as coolies within the Customs premises were reported on 5th June, as suffering from cholera, bacteriologically confirmed, one of whom died and the other recovered. The source of infection was not traced, but as there was no cholera in Colombo at the time and no further cases occurred, it is inferred that the infection was derived from some source outside Ceylon.

Plague.—291 cases were recorded of which 159 were septicæmic, and 132 were bubonic in type, all of the septicæmic and 114 or 86.4 per cent of the bubonic cases proved fatal. No septicæmic case, verified bacteriologically as plague, has ever recovered amongst the Colombo cases since the disease first appeared here.

The virulence of this disease shows no signs of abating, but on the contrary appears to be increasing. Thus the case mortality for all cases which was 92.2 per cent in 1914, was 92.8 per cent in 1915, and 93.8 per cent in 1916. No increase in the mortality rate of the septicæmic cases is of course possible, and the increase in the total case mortality is entirely due to a higher rate of mortality amongst the bubonic cases, the rates for which have been as follows, *viz.*—81.3 per cent in 1914, 82.8 per cent in 1915, and 86.4 per cent in 1916. It is unfortunate that the class of people chiefly attacked by this disease so strenuously oppose any attempt at prophylaxis by means of plague vaccine, which is said to give good results in other countries.

II. ADMINISTRATION.

General.—As the result of 68,290 sanitary inspections paid during the year, 5,882 sanitary defects of various kinds were found, a large proportion of which come under the heading of "filthy premises." The parties responsible were in each case warned to abate the nuisance, and in 3,032 instances this warning was complied with. In 2,271 cases it was found necessary to serve written notices and of these 1,381 were complied with. 2423 prosecutions for offences against the sanitary laws were entered, in 2,246 of which convictions were obtained, fines aggregating Rs. 31,157 being imposed.

Insanitary dwellings.—At the commencement of the year 104 dwellings which had been previously closed under the Plague Regulations as unfit for human habitation were still closed. During the year 146 further insanitary dwellings were closed under the same regulations, while 156 premises were structurally improved at the instance of this Department.

Wells and cesspits.—44 polluted or abandoned wells, and 8 foul cesspits were closed after notice.

Disinfection, cleansing and rat hole filling.—3,192 premises were disinfected, in 503 of which phthisis had occurred, while 155 loads representing 8,378 articles were passed through the Equifex steam disinfector. 761 premises in which cases of dangerous infectious diseases had occurred, or which were in such a dangerously filthy condition as to require immediate cleansing, were scavenged by the cleansing gang of this Department. This gang also carries out the special measures adopted in cases of plague, and during the year they found 26,042 rat holes in 5,061 premises, i.e., an average of 5 rat holes per house. All these were fumigated by means of the Clayton machines and then filled up with cement mortar. The floors of 2,457 premises were pesterined and the tiles removed from 387 plague infected houses. 14 premises were cleared of snails which have become a troublesome pest of late years.

Anti-mosquito work.—8,505 houses and tenements were inspected with the result that 161,097 potential and 3,834 actual breeding places were found. Only 22 complaints in regard to mosquitoes were received which is however obviously not to be taken as an indication of the freedom of the town from this pest. The Queen's House block was inspected 41 times during the year.

LABORATORY WORK.

City Analyst.—166 samples of the town water drawn at various places, some from mains and some from house taps, were examined by the City Analyst, all of which were reported to be of good quality.

28 samples from wells were examined, 21 being condemned and 7 passed.

Of 473 samples of milk collected by the Inspectors from milkmen while on their way to their customers, 409 were passed, and 64 or 15.4 per cent were condemned. There has been a tendency during the last two years towards more frequent adulteration, due probably to the fact that the Inspectors have not had so much time to devote to milk sampling as hitherto on account of plague work.

Municipal Bacteriologist.—23,546 rats were examined for plague, smears being in every case made for microscopic examination, with the result that 62 or 0.26 per cent infected rats were detected. This work involved the carrying out of 47,092 separate tests including the inoculation of 17 guinea pigs of which 8 developed plague. 2,530 specimens of blood, urine, faeces, sputum, spleens, &c. were received and examined, of which 117, as compared with 68 in 1915, were sent in by Medical Practitioners. This indicates an increasing appreciation by the Medical Practitioners of the assistance rendered to them by the Department. 29 anti-typhoid inoculations of vaccine prepared in the Laboratory were carried out during the year.

The stock of anti-plague vaccine which was obtained from India was not used and may now be considered unfit for use. There is no demand for this prophylactic, but on the contrary the people who are most exposed to plague infection have a profound suspicion of it and objection to its use.

Food Inspection.—This most important branch of the work was, as usual, to a large extent neglected except in so far as the examination of consignments reported by the Customs authorities was concerned. It is quite impossible to carry on the work of food inspection efficiently until at least one trained food inspector is appointed and employed solely upon this duty, and it will be impossible now to secure the services of such an officer until the war is over.

Municipal Midwives.—The Municipal Midwives, of whom there are 7, attended 666 confinements resulting in the birth of 674 children. There were 19 still births.

MUNICIPAL DISPENSARIES.

Slave Island.—Medical Officer, Dr. D. W. Perera.—15,939 patients were treated, their visits aggregating 30,207 as compared with the corresponding totals of 13,233 and 30,207 in 1915. This dispensary is undoubtedly a very popular institution amongst the poor people as the result to a large extent of Dr. Perera's assiduous attention to his duty and his skilful treatment of their complaints. He paid 708 domiciliary visits to persons unable to attend at the Dispensary.

St. Paul's.—Medical Officer, Dr. S. D. Fernando.—The total number of visits by patients to the St. Paul's Dispensary was 13,698. I am unable to record the number of domiciliary visits paid by the Medical Officer as this information has not been furnished in time.

Health Visitors.—In the course of their work 865 visits were paid by the Health Visitors to hand fed children, while instructions in regard to infant feeding generally were given at 3,283 houses.

Municipal Enteric Hospital at Buller's road.—52 patients were admitted, and there were 4 cases remaining from 1915, making a total of 56 under treatment, 47 cases were discharged cured while 9 or 16.1 per cent proved fatal. Dr. Eapen, who had done such good work for the Council at this Hospital, was transferred by Government to another post in July, and was succeeded by Dr. K. K. Jacob.

Staff changes.—I was on leave in England from 24th March, 1916 till 4th February, 1917, during which period Dr. C. V. Aserappa acted, assisted by Dr. E. R. Loos.

I am, &c.,

STATEMENTS.

No. 1.—(a). Average monthly mean temperature at Colombo Observatory, (C. G.)

Years.	Jan.	Feb.	March	April.	May.	Junc.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
8	79.0	80.0	81.6	82.8	82.6	81.7	80.9	81.2	81.1	80.2	79.5	79.0	80.0

(b). Monthly mean temperature at Colombo Observatory during, 1916.

Year.	Jan.	Feb.	March	April.	May.	Junc.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1916.	78.3	78.8	81.0	82.5	81.0	80.8	80.3	80.5	80.4	80.3	78.7	78.2	80.1

(c). Average monthly mean pressure at Colombo Observatory, (C. G.) altitude 24 feet above mean sea level.

Years.	Jan. in.	Feb. in.	March in.	April. in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Year.
7-8	29.916	29.897	29.886	29.855	29.830	29.828	29.845	29.851	29.862	29.879	29.874	29.893	29.868

(d). Monthly mean pressure at Colombo Observatory during, 1916.

Year.	Jan. in.	Feb. in.	March in.	April. in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Year.
1916.	29.931	29.879	29.880	29.835	29.799	29.806	29.800	29.845	29.824	29.852	29.870	29.863	29.849

(e). Average monthly rainfall at Colombo Observatory (C. G.) and Colombo Fort.

Station	Years.	Jan. in.	Feb. in.	March in	April. in	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Year. in.
Colo: Observatory...	9	2.95	1.77	3.82	7.74	13.32	8.18	7.14	2.73	4.02	14.28	11.58	4.28	81.81
Colombo Fort ...	47	3.32	1.97	4.33	9.84	11.09	7.49	4.67	3.32	4.54	13.94	11.84	5.13	81.48

(f). Monthly rainfall at Colombo Observatory, Cinnamon Gardens, and Colombo Fort, during 1916—Observatory gauge 25 feet and Fort 70 feet above mean sea level.

Station,	Year.	Jan. in.	Feb. in.	March in.	April. in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Year. in.
Colo: Observatory...	1916.	0.31	0.07	4.47	11.17	30.99	7.97	13.54	4.91	3.82	3.25	8.04	2.03	90.57
Colombo Fort ...	1916.	0.30	0.91	6.66	6.93	31.86	5.85	11.25	5.17	3.15	1.78	8.49	1.30	83.65

No. 2.—Area and estimated population by Wards, 1916.

Ward.	Total area in acres.	Nett available area (in acres.)	Estimated population.	Density per acre of available area.
Fort and Galle Face	... 220	... 112	... 4,024	... 35.9
Pettah	... 92	... 67	... 9,127	... 136.2
San Sebastian	... 116	... 108	... 13,224	... 122.4
St. Paul's	... 143	... 135	... 28,334	... 209.9
Kotahena	... 1,649	... 1,056	... 46,463	... 44.0
New Bazaar	... 289	... 226	... 25,555	... 113.1
Maradana	... 1,297	... 1,025	... 50,114	... 48.9
Slave Island	... 313	... 304	... 25,187	... 82.9
Kollupitiya	... 1,928	... 1,655	... 28,682	... 17.3
Eastward Extension	... 1,593	... 1,593	... 12,505	... 7.8
Wellawatte Extension	... 620	... 620	... 8,308	... 13.4
The Lake	... 416	—	—	—
Colombo Town	... <u>8,676</u>	... <u>6,901</u>	... <u>251,523</u>	... <u>36.4</u>

No. 3.—Population by Race.

Race.	Population estimated to middle of 1916.
All races	251,523
Europeans	3,515
Burghers	16,493
Sinhalese	112,835
Tamils	60,930
Moors	44,314
Malays	6,251
Others	7,185

No. 4.—Ward Birth-rates.

Ward.	Average rate per 1000 population, 1906—1915.	Births, 1916.	Birth-rate per 1000 population, 1916.
Colombo	23.8	5552	22.1
Fort	3.0	3	.7
Pettah	5.6	37	4.1
San Sebastian	19.9	232	17.5
St. Paul's	16.7	418	14.8
Kotahena	22.6	979	21.1
New Bazaar	22.6	535	20.9
Maradana	21.0	881	17.6
Slave Island	23.0	551	21.9
Kollupitiya	16.9	477	16.6
Eastward Extension	15.3	222	17.8
Wellawatte Extension	28.3	185	22.3
Hospitals	—	1032	—

No. 5.—Racial Birth-rates.

Race.	Average rate per 1000 population, 1906—1915.	Births, 1916.	Birth-rate per 1000 population, 1916.
All races	23.8	5552	22.1
Europeans	25.5	67	19.1
Burghers	33.1	512	31.0
Sinhalese	30.2	3088	27.4
Tamils	12.5	726	11.9
Moors	19.9	814	18.4
Malays	34.3	225	36.0
Others	13.7	120	16.7

No. 6.—Colombo Ward Death-rates. (All causes.)
Death-rate per 1,000 population.

Wards.	Average 1906—1915.	1916 Deaths.	1916 Crude rate.	Hospitals of non-residents.	1916		Increase or decrease on the average (crude.)
					Corrected for deaths in	decrease on the average (crude.)	
Colombo Town	30.6	6971	27.7	24.9	...	—2.9	
Fort	9.5	59	14.7	16.2	...	+5.2	
Pettah	10.9	80	8.8	18.3	...	—2.1	
San Sebastian	23.0	285	21.5	25.5	...	—1.5	
St. Paul's	23.1	573	20.2	24.1	...	—2.9	
Kotahena	23.3	992	21.4	24.0	...	—1.9	
New Bazaar	26.5	582	22.8	27.7	...	—3.7	
Maradana	23.4	1067	21.3	25.6	...	—2.1	
Slave Island	23.2	550	21.8	25.2	...	—1.4	
Kollupitiya	16.9	403	14.0	16.8	...	—2.9	
Eastward Extension	13.6	171	13.7	18.8	...	+ .1	
Wellawatte Extension	18.3	136	16.4	21.7	...	—1.9	
Hospitals	—	2073	—	—	...	—	

No. 7.—Colombo Racial Death-rates. (All causes.)
Death-rate per 1,000 population.

Race.	Average 1906—1915.	1916 Deaths.	Crude rate.	Hospitals of non-residents.	1916		Rate corrected for age and sex.
					Corrected for deaths of	Increase or decrease on the average (crude.)	
All races	30.6	6971	27.7	24.9	—2.9	—2.8	29.3
Europeans	24.5	58	16.5	12.2	—8.0	4.3	—
Burghers	24.6	363	22.0	21.4	—1.4	.6	—
Sinhalese	33.4	3349	29.7	25.0	—3.7	4.7	—
Tamils	29.1	1487	24.4	23.1	—4.7	1.3	—
Moors	27.4	1195	27.0	26.7	—.4	.3	—
Malays	33.9	193	30.9	30.6	—3.0	.3	—
Others	33.2	326	45.4	38.3	+12.2	7.1	—

No. 8.—Infant Mortality, 1916.
By Wards. Rate per 1,000 births.

Wards.	Average 1906—1915.	1916.				Increase or decrease.
		All races	Europeans	Burghers.	Sinhalese.	
Colombo Town	298	...	234	...	...	— 64
Fort	250	...	—	...	...	—250
Pettah	341	...	324	...	...	— 17
San Sebastian	361	...	280	...	...	— 81
St. Paul's	388	...	292	...	...	— 96
Kotahena	300	...	239	...	...	— 61
New Bazaar	381	...	299	...	...	— 82
Maradana	333	...	303	...	...	— 30
Slave Island	321	...	245	...	...	— 76
Kollupitiya	256	...	166	...	...	— 90
Eastward Extension	258	...	248	...	...	— 10
Wellawatte Extension	233	...	157	...	...	— 76
Hospitals	173	...	135	...	...	— 38

No. 9.—Infant Mortality 1916. Principal Causes.
Expressed as a rate per 1,000 births.

Cause.	All races	Europeans	Burghers.	Sinhalese.	Tamil.	Moors.	Malays.	Others.
All causes	234	90	148	208	333	303	200	333
Premature birth	16	—	12	18	21	14	—	25
Atrophy and debility	55	—	25	43	103	86	36	75
Bronchitis	8	—	—	7	14	10	9	8
Pneumonia	21	30	23	21	18	17	40	—
Diarrhoeal	21	—	20	22	16	29	18	8
Convulsions	70	45	35	59	110	98	49	125
Tetanus	3	—	2	3	6	1	4	8
All other causes	40	15	31	35	45	48	44	84

No. 10.—Notifiable Infectious Diseases, 1916.

Disease.													Total for the year.	Cases reported from Port.	Cases reported from Outside.	Grand total of cases.	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.					
Plague	...	17	18	18	14	11	36	43	35	24	25	25	291	2	44	295	
Cholera	...	—	—	—	—	—	—	—	—	—	—	—	—	1	7	8	
Small-pox	...	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	
Chicken-pox	...	292	627	945	513	357	117	89	78	39	17	52	78	3204	11	60	3275
Measles	...	2	26	151	181	145	112	124	148	90	147	86	141	1353	—	9	1426
Diphtheria	...	—	—	1	1	—	—	1	1	2	—	1	—	—	7	—	7
Acute Diarrhoea	...	2	—	1	—	—	1	2	1	1	—	—	—	—	8	—	8
Enteric Fever	...	37	37	34	51	37	30	34	66	33	26	30	25	440	3	71	514
Continued Fever	...	2	9	6	4	7	7	5	6	5	6	9	1	67	—	4	71
Phthisis	...	76	65	67	51	83	74	61	67	62	63	71	66	806	1	223	1030
Total	...	428	782	1222	816	641	379	359	402	257	283	274	336	6179	130	371	6680

No. 11.—Plague 1916. Distribution by Wards.

Ward.	Cases.	Deaths.
Fort	...	—
Pettah	...	18
San Sebastian	...	45
St. Paul's	...	57
Kotahena	...	24
New Bazaar	...	37
Maradana	...	62
Slave Island	...	24
Kollupitiya	...	5
Eastward Extension	...	3
Wellawatte Extension	...	—
Wharf	...	1
Vagrants and unknown	...	15
Total	...	291

Bubonic.

Cases.	Deaths.
132	114

Septicaemic.

Cases.	Deaths.
159	159

Case Mortality.

All cases	...	...	93.8
Bubonic	...	...	86.4
Septicaemic	...	...	100.0

No. 12.—Plague Cases 1916. Distribution by Race, Age and Sex.

RACE.	SEX.	Plague Cases 1916.												Total of each Race.	Case rate per 1,000 population.	Deaths.	Case Mortality per cent.	Mortality per 1,000 population.
		0 to 5 years.	5 to 10 years.	10 to 15 years.	15 to 20 years.	20 to 25 years.	25 to 30 years.	30 to 35 years.	35 to 40 years.	40 to 50 years.	50 to 60 years.	60 years and over.	All Ages.					
All races	Males	...	6	14	27	55	32	26	9	13	9	1	220	291	1.16	273	93.8	
	Females	...	2	9	17	14	5	5	8	4	2	—	71	—	—	—	1.09	
Europeans	Males	...	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Females	...	2	4	—	—	—	—	—	—	—	—	—	—	—	—	—	
Burghers	Males	...	5	7	18	9	4	3	3	3	4	1	—	—	—	—	—	
	Females	...	5	5	9	3	5	3	1	1	4	—	8	—	—	—	—	
Sinhalese	Males	...	1	1	18	9	4	3	3	3	4	—	58	89	—	—	—	
	Females	...	1	1	5	9	3	3	1	1	4	—	31	—	—	—	—	
Tamils	Males	...	3	13	18	11	9	11	1	1	2	—	70	82	—	—	—	
	Females	...	2	3	2	2	—	—	1	1	2	—	12	—	—	—	—	
Moors	Males	...	5	6	17	12	12	11	4	8	1	—	83	98	—	—	—	
	Females	...	3	4	2	—	—	1	2	1	2	—	15	—	—	—	—	
Malays	Males	...	1	1	1	1	1	1	1	1	1	—	1	6	—	5	—	
	Females	...	1	1	2	—	—	—	—	—	—	—	5	—	—	83	—	
Others	Males	...	—	—	—	—	—	—	—	—	—	—	7	7	—	6	—	
	Females	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Total	...	8	23	44	69	37	31	33	17	17	9	3	291	—	—	—	—	

No. 13.—Plague Cases 1916. Rate per 1,000 living at each age period ; calculated on the Census population 1911.

Age period.		No. of cases.		Case rate.
0 to 5 years.	...	8	...	0.39
5 years to 10 years	...	23	...	1.08
10 " 15 "	...	44	...	1.78
15 " 20 "	...	69	...	2.89
20 " 25 "	...	37	...	1.37
25 " 30 "	...	31	...	1.25
30 " 35 "	...	33	...	1.81
35 " 40 "	...	17	...	1.22
40 " 50 "	...	17	...	0.96
50 " 60 "	...	9	...	0.84
60 " and over	...	3	...	0.35
All ages	..	291		1.38

No. 14.—Plague 1916. Cases Reported—Monthly Incidence.

Month.	Plague cases.	Mean temperature.	Monthly rainfall inches.
January	17	78.3	0.31
February	18	78.8	0.07
March	18	81.0	4.47
April	14	82.5	11.17
May	11	81.0	30.99
June	36	80.8	7.97
July	43	80.3	13.54
August	35	80.5	4.91
September	25	80.4	3.82
October	24	80.3	3.25
November	25	78.7	8.04
December	25	78.2	2.03
Total	291	80.1	90.57

No. 15.—Statement compiled from monthly returns furnished by the Veterinary Surgeon, showing rats trapped and found dead during, 1916.

Month.	No. of rats trapped.	No. of dead rats found	Total.
January	14,619	28	14,647
February	12,362	37	12,399
March	11,105	33	11,138
April	9,796	55	9,851
May	11,871	25	11,896
June	11,547	17	11,564
July	11,928	38	11,966
August	10,052	27	10,079
September	12,386	23	12,409
October	13,246	11	13,257
November	14,317	37	14,354
December	13,900	9	13,909
Total for the year.	147,129	340	147,469

No. 16.—Rat examination.

Month.	Total rats examined.	No. found infected.	Percentage infection.
January	2,023	7	0.35
February	1,923	4	0.21
March	2,081	3	0.14
April	1,599	2	0.13
May	1,649	0	0.00
June	1,727	5	0.29
July	2,097	17	0.81
August	2,470	8	0.30
September	2,521	4	0.16
October	2,183	4	0.18
November	1,918	5	0.26
December	1,355	3	0.23
Total	23,546	62	0.26

No. 17.—Small-pox, 1916.

1 case reported from Eastward Extension Ward.
Sinhalese, female, 22 years.

No. 18.—Vaccinations performed during 1916, by Government Vaccinators.

Wards.	Primary Vaccinations.	Re-vaccinations.	Totals.
Fort, Galle Face, Pettah, and San Sebastian	823	874	1697
Kotahena	719	274	993
St. Paul's	1004	627	1631
New Bazaar	757	308	1065
Maradana	768	174	942
Slave Island	699	564	1263
Colpetty	910	155	1065
Eastward Extension	834	20	854
Itinerating (Colombo)	477	43	520
	6991	3039	10030

Vaccinations performed during 1916, by Municipal Vaccinators.

Eastward Extension	27	445	472
Total Vaccinations during year ..	7018	3484	10502

No. 19.—Fevers by Wards, 1916. Cases, deaths and rates per 1000 of population.

DISEASE.	Colombo.	Fort.	Pettah.	San Sebastian	St. Paul's.	Kotahena.	New Bazaar.	Maradana.	Slave Island.	Kollupitiya.	Eastward Extension.	Wellawatte Extension.	Hospitals (deaths.)	Port (cases)	Outside (cases)	Untraced case
<i>Enteric fever.</i>																
Cases	514	2	14	24	26	77	52	69	23	52	19	25	—	3	75	53
Case rate	2.04	.50	1.53	1.81	.92	1.66	2.03	1.38	.91	1.81	1.52	3.01	—	—	—	—
Deaths	231	—	3	8	10	33	13	20	20	11	4	2	107	—	—	—
Death-rate...	.92	—	.33	.60	.35	.71	.51	.40	.79	.38	.32	.24	—	—	—	—
<i>Continued fever.</i>																
Cases	71	—	—	3	3	10	5	10	1	15	8	13	—	—	3	—
Case rate	.28	—	—	.23	.11	.22	.20	.20	.04	.52	.64	1.56	—	—	—	—
<i>Remittent fever.</i>																
Deaths	59	2	2	2	4	9	4	11	6	1	1	4	13	—	—	—
Death-rate...	.23	.50	.22	.15	.14	.20	.16	.22	.24	.03	.08	.48	—	—	—	—
<i>All fevers.</i>																
Cases	585	2	14	27	29	87	57	79	24	67	27	38	—	3	78	53
Case rate	2.32	.50	1.53	2.04	1.03	1.88	2.23	1.58	.95	2.33	2.16	4.57	—	—	—	—
Deaths	318	2	5	11	14	43	22	33	31	18	10	9	120	—	—	—
Death-rate...	1.26	.50	.55	.83	.50	.93	.86	.66	1.23	.63	.80	1.08	—	—	—	—

No. 20.—Fevers 1916. Cases, deaths and rates per 1000 population by race.

DISEASE.	All races.	Europeans.	Burghers.	Sinhalese.	Tamils.	Moors.	Malays.	Others.	
Enteric.	Cases	514	11	77	287	53	30	10	.46
	Case rate	2.04	3.13	4.67	2.54	.87	.68	1.60	6.40
	Deaths	231	2	29	128	26	23	7	16
	Death-rate...	.92	.57	1.76	1.13	.43	.52	1.12	2.23
Simple Continued Fever.	Cases	71	—	9	45	8	6	2	2
	Case rate	.28	—	.54	.39	.13	.14	.32	.28
	Deaths	28	—	3	13	5	5	2	—
	Death-rate...	.11	—	.18	.11	.08	.11	.32	—
Remittent Fever.	Deaths	59	1	—	23	16	11	4	4
	Death-rate...	.23	.28	—	.20	.26	.25	.64	.56
All Fevers.	Cases	585	11	86	332	61	36	12	48
	Case rate	2.32	3.13	5.21	2.93	1.00	.82	1.92	6.68
	Deaths	318	3	32	164	47	39	13	20
	Death-rate...	1.26	.85	1.94	1.44	.77	.88	2.08	2.79

No. 21.—Enteric cases reported during, 1916. (Inclusive of Port & outside cases).
 Distribution by race, age and sex.

Race.	Sex	All ages										Total of each race	Case rate per 1,000 popul.	Deaths.	Case morta- lity per cent.	Death rate per 1,000 popul.		
		0 to 5 years	5 to 10 years	10 to 15 years	15 to 20 years	20 to 25 years	25 to 30 years	30 to 35 years	35 to 40 years	40 to 50 years	50 to 60 years							
All Raees.	{ M	11	22	33	64	68	52	25	15	19	11	7	327	514	2.04	231	44.9	.92
	{ F	15	23	30	24	28	19	13	15	10	4	6	187					
Europeans.	{ M	—	—	1	—	1	2	—	2	2	1	—	9	11	3.13	2	18.1	.57
	{ F	—	1	—	—	1	1	—	—	—	—	—	2					
Burghers.	{ M	3	2	4	11	4	4	5	1	5	2	1	41	77	4.67	29	37.7	1.76
	{ F	2	4	2	5	5	5	4	5	1	2	1	36					
Sinhalese.	{ M	6	16	25	32	31	21	10	8	9	7	3	168	287	2.54	128	44.6	1.13
	{ F	13	15	22	12	15	13	5	8	9	2	5	119					
Tamils	... { M	2	—	2	7	7	6	6	3	1	—	2	36	53	.87	26	49.1	.43
	{ F	2	3	3	6	—	1	2	—	—	—	—	17					
Moors	... { M	2	1	6	4	4	2	1	1	1	1	—	22	30	.68	23	76.7	.52
	{ F	1	2	3	—	—	2	2	—	—	—	—	8					
Malays	... { M	2	—	3	—	1	—	—	—	—	—	—	6	10	1.60	7	70.0	1.12
	{ F	1	1	1	2	—	1	—	—	—	—	—	4					
Others	... { M	—	—	—	5	21	14	2	1	1	—	1	45	46	6.40	16	34.8	2.23
	{ F	—	—	—	—	—	—	1	—	—	—	—	1					

No. 22.—Pulmonary diseases, 1916. Rate per 1,000 population. By race.

Disease.		All races		Europeans		Burghers		Sinhalese		Tamil		Moors		Malays		Others	
Phthisis	Deaths	...	859	3	33	442	218	107	20	36							
	Death-rate	...	3'42	'85	2'00	3'92	3'58	2'41	3'20	5'01							
Pneumonia	Deaths	...	776	5	49	348	163	130	25	56							
	Death-rate	...	3'09	1'42	2'97	3'08	2'67	2'93	4'00	7'80							
Bronchitis	Deaths	...	186	1	6	79	43	45	9	4							
	Death-rate	...	'74	1	'36	'70	'71	1'02	1'44	'56							
All Pulmonary	Deaths	...	1821	8	88	869	424	282	54	96							
	Death-rate	...	7'25	2'27	5'33	7'70	6'96	6'36	8'64	13'37							

No. 23.—Diarrhoeal Diseases, 1916. Death and death-rate per 1,000 population.

Disease,		All races	Europeans	Burgers	Sinhalese	Tamils	Moors	Malays	Others
Diarrhoea & enteritis.	Deaths	508	3	28	249	135	67	10	16
	Death-rate	2.02	.85	1.70	2.21	2.22	1.51	1.60	2.23
Dysentery	Deaths	186	3	11	70	65	21	3	13
	Death-rate	.74	.85	.66	.62	1.07	.47	.48	1.81
All Diarrhoeal	Deaths	694	6	39	319	200	88	13	29
	Death-rate	2.76	1.70	2.36	2.83	3.29	1.98	2.08	4.04

No. 24.—Work done at the Bacteriological Laboratory during 1916.

		Samples received,	Separate tests applied.
Lake water Analysis	...	7	56
Town water Analysis	...	171	1,364
Specimens of blood, sputum, &c., from Medical Practitioners, the Municipal Enteric Hospital and Public Health Department	...	2,530	2,923
Rat examinations	...	23,546	47,092
Water samples from vegetable gardens	...	2	10
Total	...	26,256	51,445

Twenty-nine inoculations of Anti-typhoid vaccine prepared in the Laboratory were administered during the year.

Specimens of blood sent by Medical Practitioners	...	59
" " Enteric Hospital and Slave Island Dispensary	...	57
" " Public Health Department	...	439
Specimens of urine and faeces sent by Medical Practitioners	...	12
" " Public Health Department	...	3
Throat swabs sent by Medical Practitioners	...	9
Specimens of sputum sent by Medical Practitioners	...	37
" " Public Health Department	...	12
Spleens from Plague cases	...	134
Animals' brains	...	4
,, ears	...	1764
		<hr/>
	Total ...	2530

Seventeen guinea pigs were inoculated from spleen juice during the year; of this number eight died of Plague.

No. 25.—Analyses made by City Analyst during 1916.

Nature of Sample sent to Analyst,	No. of Samples sent.	No. Condemned.	No. Passed.
Town water	... 166	... —	... 166
Milk	... 473	... 64	... 409
Ghee	... 1	... —	... 1
Well water	... 28	... 21	... 7
Lake water	... 4	... 4	... —
	Total ..	672	89
		<hr/>	<hr/>
			583

No. 26.—Summary of Work Statements.

(a) GENERAL.

No. of inspections	...	68,290
,, premises in which sanitary defects were found	...	5,882
,, notices served	...	2,271
,, insanitary dwellings closed	...	146
,, insanitary dwellings structurally improved after notice	...	156
,, insanitary dwellings remaining closed from previous years	...	104
,, wells closed	...	44
,, cesspits closed	...	8
,, houses disinfected	...	3,192
,, milk samples taken	...	473
,, articles steam disinfected	...	8,378
,, bakeries registered	...	4
,, bakeries discontinued	...	2
,, backeries on register at end of year	...	44
,, dairies registered	...	4
,, dairies discontinued	...	3
,, dairies on register at end of year	...	41
,, eating houses registered	...	193
,, eating houses discontinued	...	187
,, eating houses on register at end of year	...	321
,, laundries registered	...	72
,, laundries discontinued	...	36
,, laundries on register at end of year	...	357
,, aerated water factories registered	...	1
,, aerated water factories discontinued	...	—
,, aerated water factories on register at end of year	...	16
,, opium divans registered	...	—
,, opium divans discontinued	...	2
,, opium divans on register at end of year	...	16

(b) FOOD INSPECTION.

Damaged food-stuffs seized during 1916.

Beef	...	...	...	...	5 $\frac{3}{4}$ lbs.
Maldivine fish	...	...	...	...	52 "
Apples	..	...	...	...	3 "
Dates	...	...	...	...	4 "

Food-stuffs condemned at Customs.

Dhall	...	...	...	3 bags.
Rice	...	...	...	243 "
Dry fish	...	...	...	17 " and also 2805 lbs.
Onions	...	...	...	2800 "

(c) ANTIMOSQUITO WORK.

Sub-Inspector B. H. de Soyza with six Overseers and twelve coolies.

(1) *Complaints from householders.*

No. of complaints received	...	22
" premises visited	...	153
" potential breeding places found	...	9388
" actual breeding places found	...	483

(2) *Queen's House special area.*

No. of investigations	...	41
" potential breeding places	...	10,681
" actual breeding places	...	221

(3) *General inspection work.*

No. of premises inspected	...	3,037
" tenements inspected	...	5,315
" potential breeding places	...	141,028
" actual breeding places	...	3,130

Summary.

No. of premises inspected	...	3,190
" tenements inspected	...	5,315
" potential breeding places	...	161,097
" actual breeding places	...	3,834

N. B.—The Antimosquito staff in addition to their usual work were frequently employed on Plague duty.

(d) CLEANSING GANG.

" premises scavenged	...	761
" premises pesterined	...	2,457
" premises claytonised	...	5,061
" rat holes found and filled up	...	26,042
" premises unroofed	...	387
" premises cleared of snails	...	14

(e) PROSECUTIONS-SUMMARY.

" cases entered	...	2,423
" convictions	...	2,246
" cases acquitted or withdrawn	...	121
" cases pending	...	62

Aggregate amount of fines imposed Rs. 31,157.

(f) PROSECUTIONS—DETAILS.

Ordinance or By-law.	Offensee.	No. of Cases.
Section 91 Sub-Sec. 5 of Ord. 10 of 1861	Allowing liquid waste to flow over public pavement	1
" 1 .. 1 .. 15 of 1862	Filthy premises	1181
" 1 .. 2 .. 15 ..	Foul drain, cesspit, &c.	14
" 1 .. 4 .. 15 ..	Nuisance by cattle, swine, &c.	65
" 1 .. 8 .. 15 ..	Exposing for sale unwholesome food	13
" 1 .. 9 .. 15 ..	Selling unwholesome food	2
" 314 of Ord. 2 of 1883	Assault	1
" 206 of Ord. 7 of 1887	Additional privy accommodation	2
" 39 of Ord. 1 of 1896	Unregistered dairy	10
" 47 Chap. 2 of Ord. 1 of 1896	Storing milk in unsuitable places	2
" 53 .. 3 .. 1 of 1896	Unregistered laundry	66
" 110 of Ord. 6 of 1910	Spitting in market	2
" 178 .. 6 ..	Failure to limewash	132
" 186 .. 6 ..	Neglect to provide privy accommodation	2
" 189 .. 6 ..	Stagnant pools	2
" 205 .. 6 ..	Failure to report infectious diseases	37
" 212 .. 6 ..	Unlicensed dangerous trades	4
Rule 29 of Chap. VIII By-laws.	Digging wells without permission	5
" 31 .. VIII ..	Neglect to provide receptacle for rubbish	4
" 4 .. IX ..	Neglect to paint & cleanse public bathing tubs	14
" 1 .. XI ..	Unlicensed bakery	4
" 3 .. XI ..	Uncemented floor of eating house	16
" 7 .. XI ..	Filthy bakery	56
" 8 .. XI ..	Unclean workmen in bakery	12
" 11 .. XI ..	Unregistered eating house	39
" 2 .. XIII ..	Resistance to a public officer	3
" 3d .. XIII ..	Misbehaving in public market	16
" 3f .. XIII ..	Pollution of water in public market	2
" 9 .. XIII ..	Sale of beef without license	2
" 11 .. XIII ..	Filthy stall	79
" 14 .. XIII ..	Selling unauthorised articles in stalls	4
" 28 .. XIII ..	Throwing rubbish in market	4
" 31 .. XIII ..	Keeping stall closed without permission	8
" 34 .. XIII ..	Obstruction of passages in public markets	128
" 2 (2) .. XIV ..	Exposing food to dust and flies	306
" 3 .. XIV ..	Sale of adulterated milk	60
" 7 .. XIV ..	Unlicensed milk vendors	116
" 169 (1) & 100 (5) a By-laws (Special.)	Growing vegetables with polluted water	3
Regulation 26 made under Sec. 5 Ord. 3 of 1897.	Neglect to report infectious diseases	1
" 38 .. 5 .. 3 ..	Neglect to fill up well	2
" 41 .. 5 .. 3 ..	Remove a plague patient without permission	3
	Total	2423

(g) MIDWIVES.

No. of confinements attended	...	666
,, children born	...	674
,, still births	...	19
,, deaths within 2 weeks	...	10
Death-rate exclusive of still births 1.50 %		

(h) ENTERIC HOSPITAL.

No. of patients remaining from previous year	...	4
,, admissions during the year	...	52
,, discharged cured	...	43
Number died	...	9

Case mortality per cent 17.3.

(i) SLAVE ISLAND DISPENSARY.

Medical Officer.

No. of patients treated	...	15,939
,, visits by patients	...	30,207
Daily average attendance	...	82.7
No. of Municipal employees treated	...	168
,, outdoor visits paid by the Medical Officer	...	708
,, confinement cases visited by Medical Officer	...	66

Health Visitors.

No. of visits paid to houses	...	14,805
,, houses where instructions re infant feeding were given	...	1,563
,, visits to hand fed children	...	499
,, labour cases visited	...	95
,, dispensary tickets issued	...	20

(j) ST. PAUL'S DISPENSARY.

Medical Officer.

No. of patients treated	...	8,137
,, visits by patients	...	13,698
Daily average attendance	...	37.5

Health Visitors.

No. of visits paid to houses	...	24,552
,, houses where instructions re infant feeding were given	...	1,720
,, visits to hand fed children	...	366
,, labour cases visited	...	—
,, dispensary tickets issued	...	46

(k) SLAUGHTER-HOUSE.

No. of cattle slaughtered	...	22,870
,, sheep and goats slaughtered	...	74,350
,, pigs slaughtered	...	2,600
,, cattle rejected before slaughter	...	286
,, cattle rejected owing to poor condition	...	260
,, sheep and goats rejected	...	73
,, cattle rejected after slaughter	...	64 $\frac{1}{4}$
,, pigs rejected after slaughter	...	2

No. 27.—Births and Deaths by Wards, 1916.

WARD.	BIRTHS.										DEATHS.										Infant deaths.	
	Total Births.		Nationality.								Total Deaths.		Nationality.									
	Persons.	Males.	Females.	Europeans.	Burghers.	Sinhalese.	Tamils.	Moors.	Malays.	Others.	Persons.	Males.	Females.	Europeans.	Burghers.	Sinhalese.	Tamils.	Moors.	Malays.	Others.		
COLOMBO TOWN	5,552	2,895	2,657	67	512	3,088	726	814	225	120	6,971	4,001	2,970	58	363	3,349	1,487	1,195	193	326	1,297	
Fort and Galle Face	3	1	2	1	—	—	1	1	—	—	59	58	1	13	—	6	6	4	—	30	—	
Pettah	37	15	22	—	1	23	8	1	1	3	80	57	23	—	—	24	23	26	—	7	12	
San Sebastian	232	129	103	—	9	101	18	91	5	8	285	158	127	—	5	88	36	139	10	7	65	
St. Paul's	418	215	203	—	16	90	183	104	2	23	573	312	261	1	17	93	287	145	5	25	122	
Kotahena	979	521	458	—	88	674	121	62	13	21	992	504	488	1	63	655	167	81	4	21	234	
New Bazaar	535	256	279	1	41	204	56	206	13	14	582	290	292	—	45	184	67	258	9	19	160	
Maradana	881	481	400	3	92	483	62	176	51	14	1,067	547	520	5	94	491	141	246	58	32	267	
Slave Island	551	314	237	3	40	184	83	98	117	26	550	292	258	2	22	170	108	127	90	31	135	
Kollupitiya	477	229	248	38	81	241	74	29	8	6	403	224	179	9	39	229	90	21	8	7	79	
Eastward Extension	222	117	105	2	17	172	21	7	3	—	171	89	82	1	3	136	26	2	—	3	55	
Wellawatte Extension	185	92	93	1	24	132	12	11	4	1	136	81	55	—	14	77	25	17	1	2	29	
Hospitals (Town residents)	1032	525	507	18	103	784	87	28	8	4	991	635	356	10	44	474	291	93	5	74	139	
do. (Untraced)											383	273	110	1	7	191	142	24	1	17		
do. (Non-residents)											699	481	218	15	10	531	78	12	2	51		

No. 28.—Infant Mortality, during 1916, Deaths at different age periods and from several causes.

CAUSE OF DEATH.	AGE.												RACE.													
	Age in Weeks.					Age in Months							Europeans,		Burghers,		Sinhalese,		Tamil,		Moors,		Malays,		Others.	
	1	2	3	4	Total.	2	3	4	5	6	7-9	10-12	Total.	Europeans,	Burghers,	Sinhalese,	Tamil,	Moors,	Malays,	Others.	All races.					
I. Developmental Diseases—																										
1 Premature birth	83	4	1	1	89	2	—	—	—	—	—	—	2	—	6	56	15	11	—	3	91					
2 Atalectasis	18	—	—	—	18	—	—	—	—	—	—	—	—	—	—	7	7	3	—	1	18					
3 Atrophy and debility	132	20	19	14	185	35	19	13	15	11	25	4	122	—	13	132	75	70	8	9	307					
4 Others	3	1	2	—	6	6	1	4	1	1	5	6	24	—	2	13	6	7	2	—	30					
II. Disease of respiratory system—																										
1 Laryngitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
2 Croup	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21	10	8	2	1	42					
3 Bronchitis	—	—	—	—	—	1	3	4	2	4	7	11	8	38	—	12	65	13	14	9	—	115				
4 Pneumonia	—	3	—	1	2	6	5	9	13	14	11	30	27	109	2	—	2	—	2	—	4					
5 Others	—	—	1	1	1	1	—	—	—	—	2	—	3	—	—	2	—	—	—	—	—					
III. Diseases of digestive system—																										
1 Diarrhoeal	—	—	2	—	3	5	15	19	13	15	8	29	15	114	—	10	68	12	24	4	1	119				
2 Dentition	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	24	7	8	3	3	50					
3 Others	—	2	5	2	7	16	5	10	2	4	2	5	6	34	—	—	—	—	—	—	—					
IV. Diseases of nervous system—																										
1 Convulsions	115	35	17	21	188	50	48	19	17	17	35	14	200	3	18	181	80	80	11	15	388					
2 Laryngismus stridulus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	8	4	1	1	16				
3 Tetanus	—	13	2	—	—	—	15	—	—	1	—	1	—	1	—	—	1	—	—	—	2					
4 Others	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2					
V. Tuberculous diseases—																										
1 Tabes messenterica	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	3				
2 Tubercular meningitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
3 Others	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
VI. Accidents—																										
1 Injury	—	1	—	—	—	—	1	—	—	—	—	—	—	—	—	1	—	—	—	—	1					
2 Umbilical haemorrhage	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1	—	—	1	—	2					
3 Suffocation	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—					
4 Other violence	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	1					
VII. Infectious diseases—																										
1 Small-pox	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
2 Chicken-pox	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	2					
3 Measles	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1					
4 Whooping cough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1					
5 Mumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1					
6 Diphtheria	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
7 Cerebro-spinal fever	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
8 Scarlet fever	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
VIII. Syphilis—	1	—	—	2	3	5	2	2	3	—	2	2	16	—	1	14	2	2	—	—	19					
XI. All other causes—	13	2	—	4	19	8	9	4	9	5	18	14	67	—	6	46	9	15	5	5	86					
TOTAL	...	385	71	43	58	557	136	122	73	84	62	165	98	740	6	76	641	242	247	45	40	1297				

No. 29.—Deaths of Males and Females at different age periods for each Race in the Colombo Municipality during the year, 1916.

RACE.	UNDER 5 YEARS.										OVER 5 YEARS.										TOTAL.																	
	Under 1 year of age see particulars of statement		1 year and under 2		2 years and under 3		3 years and under 4		4 years and under 5		5 years and under 10		10 years and under 15		15 years and under 20		20 years and under 25		25 years and under 35		35 years and under 45		45 years and under 55		55 years and under 65		65 years and under 75		75 years and under 85		85 years over		Persons		Males		Females	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F						
Europeans . . .	4	2	—	—	1	—	1	—	—	—	1	—	—	—	—	—	2	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—						
Burghers . . .	38	38	24	14	10	9	6	6	3	3	4	7	6	6	6	6	7	3	10	18	16	18	1	1	1	1	1	1	1	1	1	1						
Sinhalese . . .	355	286	111	107	66	70	31	39	27	26	62	70	43	44	94	77	103	104	192	184	214	124	148	94	147	99	105	154	154	154	154	154	154					
Tamils . . .	131	111	31	35	21	20	13	16	10	10	22	34	26	14	76	24	100	40	170	88	110	51	82	23	58	26	39	16	30	30	30	30	30					
Moors . . .	123	124	42	46	19	14	15	15	3	7	29	23	23	25	45	27	40	34	71	35	57	42	32	43	31	41	35	41	119	65	54	54	54					
Malays . . .	23	22	15	8	5	1	5	2	1	1	4	4	1	1	6	6	6	6	3	4	7	6	6	4	6	4	6	6	6	6	6	95	98	98	98			
Others . . .	24	16	4	6	3	2	3	2	1	2	2	2	1	2	1	2	1	2	2	1	2	39	2	18	—	8	1	5	—	4	3	2	2	2	2			
All races . . .	698	599	227	216	130	123	71	82	45	49	123	141	101	97	246	138	314	189	538	339	454	241	314	167	288	154	183	135	174	173	95	127	697	1400	2970			

No. 30.—Causes of Deaths Registered in Colombo
during the year, 1916.

Causes of Deaths, &c.,—*contd.*

* Figures under this heading are not included in the total for Colombo Town.

Causes of Deaths, &c.,—contd.

Causes of Deaths.	Colombo Town.	Ward.												Nationality.						
		Fort & Galle Face.	Pettah.	San Sebastian.	St. Paul's.	Kotahena.	New Bazaar.	Maradana.	Slave Island.	Kollupitiya.	Eastward Extension.	Wellawatte Extension.	Town Residents.	Hospitals.	Europeans.	Burghers.	Sinhalese.	Tamils.	Moors.	Malays.
ALL CAUSES	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
64. Cerebral Haemorrhage Apoplexy	...	61	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
65. Softening of the Brain	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
66. Paralysis without special cause	...	105	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
67. General Paralysis of the Insane	...	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
68. Other forms of mental alienation	...	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
69. Epilepsy	...	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
70. Convulsions (non-puerperal)	...	130	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
71. Convulsions of Infants	...	387	—	—	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
72. Chorea	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
73. Neuralgia and Neuritis	...	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
74. Other Diseases of the Nervous System	...	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
75. Diseases of the Eyes and their Annexa	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
76. { a Mastoid Disease	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
76. { b Other Diseases of the Ears.	...	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
III. DISEASES OF THE CIRCULATORY SYSTEM.																				
77. Pericarditis	...	5	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
78. { a Simple Acute Endocarditis	...	4	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
78. { b Infective Endocarditis	...	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
79. { a Myocarditis	...	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
79. { b Valvular Disease	...	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
79. { c Other Organic Diseases of the Heart	...	50	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
80. Angina Pectoris	...	6	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
81. { a Aneurism	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
81. { b Atheroma, Arteriosclerosis	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
81. { c Other Diseases of the Arteries	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
82. { a Cerebral Embolism and Thrombosis	...	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
82. { b Embolism and Thrombosis other than Cerebral	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
83. { a Phlebitis	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
83. { b Varicose Veins	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
83. { c Haemorrhoids	...	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
83. { d Other Diseases of the Veins	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
84. { a Lymphatism, Status Lymphaticus	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
84. { b Elephantiasis Arabum (Filariasis)	...	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
84. { c Other Diseases of the Lymphatic System	...	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
85. { a Haemorrhage from any part	...	12	1	2	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—
85. { b Other Diseases of the Circulatory System	...	9	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—
IV. DISEASES OF THE RESPIRATORY SYSTEM.																				
86. Diseases of the Nose	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
86. { a Laryngismus Stridulus	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
87. { b All forms of Laryngitis (Diphtheritic excepted)	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
87. { c Other Diseases of the Larynx	...	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
88. Diseases of the Thyroid Body	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
89. Acute Bronchitis	...	112	—	1	4	19	36	13	14	15	5	2	3	—	—	6	53	27	20	2
90. { a Chronic Bronchitis	...	74	—	1	2	3	20	10	22	9	5	1	1	—	—	26	16	25	3	5
90. { b Bronchiectasis	...	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—
91. Broncho-Pneumonia	...	334	1	4	15	31	53	41	86	40	25	9	5	2	3	38	152	46	68	18
92. Pneumonia	...	366	3	10	12	15	42	28	39	30	12	6	10	123	36	74	104	59	7	38
93. { a Empyema	...	11	—	—	—	1	2	5	3	2	1	3	6	2	1	4	4	5	6	4
93. { b Other Pleurisy	...	22	—	—	1	—	—	—	—	—										

Causes of Deaths, &c.,—*contd.*

Causes of Deaths, &c.,—contd.

Causes of Deaths.	ALL CAUSES	Colombo Town.	Ward.												Nationality.								
			Fort & Galle Face.	Pettah.	San Sebastian.	St. Paul's.	Kotahena.	New Bazaar.	Maradana	Slave Island.	Kollupitiya.	Eastward Extension.	Wellawatte Extension.	Town Residents.	Untraced.	Non-Residents.*	Europeans.	Burgers.	Sinhalese.	Tamils.	Moors.	Malays.	Others.
VII. THE PUERPERAL STATE																							
134. { <i>a</i> Abortion, Miscarriage ... <i>b</i> Ante-partum Hæmorrhage <i>c</i> Ectopic Gestation ... <i>d</i> Other Accidents of Pregnancy ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
135. Puerperal Hæmorrhage ...	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
136. Other Accidents of Child-birth ...	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
137. Puerperal Septicæmia ...	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
138. { <i>a</i> Puerperal Albuminuria, Nephritis, &c. ... <i>b</i> Puerperal Eclampsia ... <i>c</i> Puerperal Phlegmasia, Alba Dolens ...	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
139. { <i>a</i> Puerperal Embolism, Sudden Death, &c. ... <i>b</i> Puerperal Insanity ... <i>c</i> Consequences of Child-birth (not otherwise defined) ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
140. { <i>a</i> Puerperal Diseases of the Breast ...	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
VIII. DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.																							
142. Gangrene ...	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
143. { <i>a</i> Carbuncle ... <i>b</i> Furuncle (Boil) ...	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
144. { <i>a</i> Phlegmon ... <i>b</i> Acute Abscess, Abscess unqualified ...	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
145. { <i>a</i> Ulcer, Bedsore ... <i>b</i> Eczema ... <i>c</i> Pemphigus ... <i>d</i> Other Diseases of the Integumentary System (Elephantiasis Arabum excepted) ...	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IX. DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION.																							
146. Diseases of the Bones (Tuberculosis and Mastoid Disease excepted) ...	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
147. Diseases of the Joints (Tuberculosis and Rheumatism excepted) ...	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
148. Amputations ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
149. Other Diseases of the Organs of Locomotion ...	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
X. MALFORMATIONS.																							
150. { <i>a</i> Congenital Hydrocephalus ... <i>b</i> Congenital Diseases of the Heart ... <i>c</i> Other Congenital Malformation (Stillbirths excluded) ...	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
XI. DISEASES OF EARLY INFANCY.																							
151. { <i>a</i> Premature Birth ... <i>b</i> Debility ... <i>c</i> Want of Breast Milk ... <i>d</i> Atrophy, Icterus, Sclerema Neonatorum ...	90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
152. { <i>a</i> Atelectasis ... <i>b</i> Injuries at Birth ... <i>c</i> Other Diseases peculiar to early Infancy ...	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
153. Lack of care ...	38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
XII. OLD AGE.																							
154. Senility ...	427	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

* Figures under this heading are not included in the total for Colombo Town.

Causes of Deaths, &c.,—*contd.*

No. 31.—Changes in the personnel of the Staff, 1916.

Medical Officers.

Dr. K. K. Jacob appointed Medical Officer of Enteric Hospital on 18th July, 1916, in place of Dr. K. Eapen.

Cemetery-keepers.

Mr. P. F. Toussaint appointed Cemetery-keeper of Kanatte on 1st January, 1916, in place of Mr. A. Raffel retired.

Mr. A. B. Brohier appointed Cemetery-keeper of Liveramentu on 15th November, 1916, in place of Mr. J. A. Carnie deceased.

Mr. E. L. Heift appointed Assistant Cemetery-keeper of Kanatte on 1st January, 1916, in place of Mr. P. F. Toussaint promoted.

Sub-Inspectors.

Mr. W. W. Wickremasinghe appointed Sub-Inspector on 10th July, 1916, in place of Mr. V. B. Ernst, dismissed.

Overseers.

Mr. E. N. Jansz appointed Overseer of Mosquito Gang on 8th January, 1916, in place of Mr. D. Irvin Perera resigned.

Peons.

R. L. Perera appointed Peon on 1st August, 1916, in place of G. W. A. Perera resigned. D. S. Jayamanna appointed Peon on 1st November, 1916, in place of A. D. Martin resigned.

Coolies.

Charles Silva appointed Disinfecting Cooly on 20th June, 1916, in place of Vellasamy dismissed. Bastian Peter appointed Disinfecting Cooly on 1st September, 1916, in place of James retired. B. Banda appointed Cooly Segregation Camp, on 8th September, 1916, in place of Don James dismissed.

